# City of Tacoma NPDES 1999 Annual Report

## Submitted April 7, 2000

This annual report is for the reporting period January through December 1999.

### 1. Status of implementing the components of the stormwater management program.

The City of Tacoma (City) received approval of its Stormwater Management Program (SWMP) from the Washington State Department of Ecology (Ecology) in July 1999. City staff presented information about the program to the City Council on April 20, 1999. Ecology staff sent out public notices and held a public workshop and hearing in the Tacoma City Council Chambers on April 29, 1999 as part of the public process. Comments that were received from the public during the hearing or in writing were incorporated into the SWMP before it was finalized.

This report describes the implementation of the Stormwater Management Program during 1999 and projects some of the program components into the future as per the schedule that was outlined in the SWMP.

The following reports, documents and activities were completed in 1999 as per the SWMP schedule:

- The Comprehensive Stormwater Management Program was approved by Ecology.
- The Snake Lake monitoring quality assurance/quality control (QA/QC) plan was submitted to Ecology
- The physical inventory of gulch and associated stream systems was completed.
- The equivalency document for the City's Stormwater Management Manual, Volume I -Design was submitted to Ecology
- The City's Stormwater Management Manual, Volume II Stormwater Pollution Prevention Manual: A Guide to Best Management Practices for Industries, Businesses and Homeowners, was resubmitted to Ecology and was approved.
- Modifications were made to the existing drainage ordinance in 1999 and it was submitted to Ecology in January 2000.
- The Sampling and Analysis Plan for the Thea Foss Waterway monitoring program was submitted to Ecology
- The Thea Foss and Wheeler Osgood Waterways Source Control Report was submitted to Ecology in 1999 and the final addendum was submitted in February 2000
- \* The Stormwater Source Control Feasibility Study was submitted to Ecology
- The 1998 Annual Report was submitted to Ecology.
- The Fourth Year report was submitted to Ecology

### S7B1 Stormwater Management Program Planning Process

Stormwater Utility staff worked with managers and staff from the Sewer Operations and Maintenance, Streets and Grounds, and Building and Land Use Services Divisions of the Public Works Department to compile the information needed for this report. Participation by elected officials and the public took place in 1995, 1996 and in 1999. A City Council study session on the SWMP was held in April 1999. The City Council was also updated several times during 1999 on the Endangered Species Act (ESA) activities that City staff were involved in

### S7B2 Water Quality Problems, Needs and Priorities

### Analysis of needs and priorities

The City's analysis of needs and priorities was included in the SWMP that Ecology approved. The SWMP includes a prioritized list of all of the City's unmet stormwater needs. The bulleted items on the first page of this report highlight many of the unmet needs that were addressed in 1999.

### **S7B3** Legal Authority

# Adoption and enforcement of ordinance containing standards equivalent to the minimum requirements of Ecology's Stormwater Management Manual

The City's drainage ordinance, Chapter 12.08 of the City Code, is currently in effect. It was revised in December 1999 in order to be equivalent with the minimum requirements of Ecology's Stormwater Management Manual. The revisions were presented to the City Council for comment and were submitted to Ecology in January 2000. The revised ordinance will be finalized in early 2000.

# Adoption and enforcement of ordinance prohibiting pollution discharges to the City's municipal stormwater system

The City's existing ordinance currently prohibits the discharge of pollutants to the City's stormwater system.

#### S7B4 Monitoring

Please refer to Section S12 Thea Foss Waterway Basin Program for information on monitoring activities in the Foss Basin.

The Snake Lake Sampling and Analysis Plan (SAP) was initially submitted to Ecology in July 1999 in accordance with the City of Tacoma's NPDES permit. Since this submittal, the City has revised and resubmitted the SAP after meetings with Ecology staff. Preliminary research and sampling was also completed. The SAP will be finalized and implemented in the year 2000.

The City of Tacoma wanted to adequately assess the condition of and the impacts to its gulches and the streams within them The City will use this information to support the future development of water quality priorities and programs for the City, as well as to influence decisions concerning the Endangered Species Act. Four areas were assessed: the Western Slopes, North Tacoma, the Lower Puyallup and Northeast Tacoma (refer to Figure 1 in Appendix A, Urban Creek Assessment Quality Assurance Project Report). Physical habitat assessments were conducted to identify habitat degradation, the causes of the degradation, and restoration potential. The goals of this assessment were to:

- Identify and map all the creeks/gulches within Tacoma's city limits.
- To identify each creek's unique characteristics, such as: bank and bed problems (e.g., existing erosion), poor or exotic vegetative cover, extreme litter, presence of odors, illicit discharges, and improper uses of creek waters.

A report summarizing the gulch and stream assessment program has been completed and is included as Appendix A.

A local bay-watch telephone hotline allows the public to report water pollution problems. The Bay-watch hotline (253-502 2190) was instituted in late 1998 and was operational throughout 1999. The City produced numerous advertisements to promote the hotline number and to raise public awareness of efforts to protect Commencement Bay from environmental threats. Specifically:

- A City staff person was interviewed for the cable TV program "City Scape" on January 21, 1999. The staff person talked about the shoreline patrols and presented the hotline as a phone number the public could call to report environmental threats to the health of the bay.
- The City produced a color poster to promote bay friendly alternatives in everyday activities and to advertise the hotline phone number. Over 80 posters were distributed to 39 separate establishments.
- The City produced and distributed public service announcements for local TV stations advertising the hotline
- The City also ran a quarter page ad in the News Tribune on November 10, 1999, prominently displaying the hotline number.

Despite this extensive public awareness campaign, the hotline has received limited use by the public to date

City staff monitor the shorelines of the entire Commencement Bay area by a City-owned boat. This is done on a monthly basis. The monitoring is done at low tide to the extent practicable. Identified problems are addressed. Several water quality improvements resulting from this program are described later in this report (see Section 7, Identification of known water quality improvements or degradation).

The bay patrols were performed on the following dates: January 6, March 26, April 22, May 7, June 9, June 29, July 21, August 11, September 14, October 29, November 10, and December 15. Two patrols were performed in June to make up for February, when no patrol was performed due to extensive boat repairs required after an accident unrelated to these patrols. Areas of the shoreline were video taped during patrols, establishing a record of existing conditions. If incidents were detected during a patrol, an incident report form was filled out that documented the incident and the follow up action or referral

The benefit of these patrols comes not only from correcting the specific problem, but they also raise the awareness of businesses and the general public about proper operations on and around the water. Copies of the video tapes and the incident report forms are available.

The environmental group, Citizens for a Healthy Bay, is sponsoring a Bay Keeper program. The person hired as the Bay Keeper has a boat and also patrols the City's many miles of shoreline. The City committed \$10,000 to their program and coordinates its efforts with those of this environmental group.

Stream Team volunteers do limited stream monitoring in several streams. They monitor for pH, temperature and other parameters.

Monitoring of surface/stormwater running off the cliffs above Marine View Drive began in mid 1999. The monitoring is taking place in the vicinity of the Natural Resource Damages Assessment (NRDA) trustee proposed restoration sites. The purpose of the monitoring is to determine if the water is of acceptable quality to be used in restoration projects. Monitoring is conducted twice per quarter at three locations and two full quarters of data had been collected by the end of 1999. Parameters tested for are organic, inorganic and conventional parameters. Data will be analyzed upon completion of the four quarters of monitoring to determine if the water is of acceptable quality to meet the needs of the restoration projects. There are no conclusions or recommendations at this time while the data is being collected.

The I-Street gulch was walked in October 1999. Areas of erosion and bank downcutting were noted and photos were taken. Riparian vegetation and water quality were assessed in areas where water and vegetation were available.

Developers are required to monitor wetlands in areas where wetlands could be impacted by development. They are required to submit reports. Approximately one-half of the City's Wetlands Specialist's time is spent on wetland monitoring activities. These activities include review of monitoring reports submitted as part of the permit approval process, tracking violations and monitoring shorelines.

There is an official weather station at the Central Wastewater Treatment Plant and 4 rain gauges located throughout the City. The rain gauge information is recorded and used as needed. The City contracts with a weather service and receives weather reports twice a day. This information provides an early warning of heavy rains and potential flooding. Maintenance crews are dispatched to proactively check and maintain trouble spots prior to anticipated heavy rains to ensure the proper operation of the system.

### Storm sewer monitoring in commercial/industrial areas

Please refer to Section S12 Thea Foss Waterway Basin Program for additional information about monitoring in commercial and industrial areas

### S7B5 Fiscal Analysis

The operation and maintenance of the Storm Drainage Utility is funded from service charges. No revenue is derived from taxes from the City's general fund. Major capital improvements are funded from revenue bonds and pay-as-you-go financing. The service charges are reviewed annually to insure that they are adequate to pay operation and maintenance costs, debt service, capital improvements and taxes. All changes to the rates must be approved by the City Council.

# STORM SEWER UTILITY

During the reporting period of January 1, 1999 through December 31, 1999, the stormwater utility spent \$14.6 million. The expenditure categories are as follows:

### **OPERATIONS:**

| Transmission                  |                           |
|-------------------------------|---------------------------|
| Personal Services             | \$633,975.11              |
| Supplies & Other Services and | \$444,353.05              |
|                               | \$ <del>111</del> ,333.03 |
| Charges                       | PC94 435 C3               |
| Miscellaneous Capital Outlay  | \$684,435.67              |
| Total                         | \$1,762,763.83            |
| Pumping                       |                           |
| Personal Services             | \$29,907.08               |
| Supplies & Other Services and | \$215,918.57              |
| · ·                           | \$213,710.37              |
| Charges                       | 06.650.50                 |
| Miscellaneous Capital Outlay  | <u>\$6.652.52</u>         |
| Total                         | \$252,478.17              |
| Holding Basins                |                           |
| Personal Services             | \$26,024.15               |
| Supplies & Other Services and | \$15,880.91               |
| Charges                       | φ13,000.91                |
| · ·                           | <b>40.079.75</b>          |
| Miscellaneous Capital Outlay  | <u>\$9,978.75</u>         |
| Total                         | \$51,883.81               |
| Engineering                   |                           |
| Personal Services             | \$297,127.36              |
| Supplies & Other Services and | \$144,864.89              |
| Charges                       | Ψ147,004.07               |
| Miscellaneous Capital Outlay  | \$0                       |
| Total                         | \$441,992.25              |
|                               |                           |
| Source Control                |                           |
| Personal Services             | \$556,474.78              |
| Supplies & Other Services and | \$659,928.11              |
| Charges                       | -                         |
| Miscellaneous Capital Outlay  | \$10,865.44               |
| Total                         | \$1,227,268.33            |
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| Personal Services             | \$270,854.71        |
|-------------------------------|---------------------|
| Supplies & Other Services and | \$52,387.75         |
| Charges                       |                     |
| Miscellaneous Capital Outlay  | <u>\$323,242.46</u> |
| Total                         | \$1,227,268.33      |

### **MISCELLANEOUS:**

### General Services

| Personal Services             | \$382,344.42   |
|-------------------------------|----------------|
| Supplies & Other Services and | \$2,622,122.95 |
| Charges                       |                |
| Miscellaneous Capital Outlay  | \$15,255.24    |
| Depreciation                  |                |
| Total                         | \$3,019,722.61 |

### **Debt Service**

| Principal and Interest | \$2,441,744 61         |
|------------------------|------------------------|
| Other                  | <br><u>\$49,631.00</u> |
| Total                  | \$2,491,375.61         |

### Other Department Divisions not included above:

#### Miscellaneous

unknown at this time

### Capital Projects

| 10,000                    |                       |
|---------------------------|-----------------------|
| T-Street Gulch            | \$100,193.03          |
| Coal Gasification Cleanup | \$76,047.37           |
| Hosmer Basin              | \$21,576.33           |
| Foss Waterway Cleanup     | \$1,709,007.56        |
| NE Tacoma System          | \$31,289.00           |
| NRDA                      | \$494,000.29          |
| Misc. Superfund           | \$1,248,400 28        |
| Miscellaneous             | <u>\$1,014,098.03</u> |
| Total                     | \$4,694,611.89        |
|                           |                       |

## Grand Total \$14,588,581.42

A description of the types of activities associated with the above expenditures is contained in Volume 3 of Tacoma's Stormwater Management Manual. Relating the budget amount in each of the above categories to the actual expenditures is very difficult at this time. Some activities are budgeted in one activity or organization but are actually spent and therefore charged to a different activity or organization. As a result, the actual expenditure in any one line item does not necessarily

relate to the budget number for that same category. Some capital expenditures may be budgeted in the operating budget but the expenditure is taken from the capital budget and vice versa.

The expected revenue from rates in 2000 is \$13.8 million. The anticipated expenditures for the year 2000 will likely be greater than in 1999. This is due to increasing activities in the Stormwater. Utility. There will be increased emphasis on source control, public education, and on revising the stormwater manual as required by the Department of Ecology. In addition, there are numerous planning, design and construction activities funded by the Utility. Some of these are to comply with federal and/or state orders, consent decrees, mandates, etc. Finally, there will be added demands on staff and Utility resources as the impact of the listing of salmon under the Endangered Species Act is felt.

### S7B6 Data Management

### Development of land cover information maps and data

A GIS mapping system has been in use for the past several years. A source control database for industrial and commercial sites has been developed. It tracks business inspections and compliance status.

Mapping of wetlands was undertaken by the Buildings and Land Use Services Division in 1999. Unpaid college interns worked for more than 400 hours mapping the City's wetlands. The wetlands were categorized as filled wetlands, known wetlands and high probability of a wetland. No formal information was available on the last category. Eventually, this information will be available on the City's GIS system.

Description and location of major structural BMPs and other structural controls

The City developed a map that shows the location and type of all public and private water quality and water quantity facilities.

## Mapping storm sewer outfalls and tributary conveyances

This type of mapping has been available for many years.

Water quality complaint investigations and database development and maintenance A customer request database has been developed for residential requests. A separate business database is currently in use

### S7B7 Intergovernmental Coordination

The City has been involved in the Tri-County Endangered Species Act (ESA) efforts. This effort has involved the municipalities of Pierce, King and Snohomish Counties as well as many of the larger cities. Representatives from the Tribes, environmental groups, businesses and land developers are also included. City staff have served on many of the Tri-County ESA work groups including stormwater. The stormwater work group, representing the above mentioned groups, spent a lot of time in 1999 developing a draft proposal for a model stormwater management program that would protect fish. The goal of the work group is to have a program that is acceptable to the National Marine Fisheries agency. These efforts are continuing into 2000.

### General coordination for monitoring, mapping, data management and modeling

The City coordinates a variety of activities with other municipalities and agencies. Issues related to the Flett drainage basin are coordinated with Pierce County, Lakewood and the Washington State Department of Transportation (WSDOT). Activities related to the ASARCO site are coordinated with the City of Ruston, Metro Parks Tacoma and the United States Environmental Protection Agency (EPA). Issues related to the clean up of the Foss Waterway are coordinated with WSDOT, EPA, the Army Corps of Engineers, the Washington State Department of Natural Resources, the Puyallup Tribe and Ecology. Activities related to the T-Street drainage basin are coordinated with Pierce County. Activities related to the Leach Creek drainage basin are coordinated with WSDOT and the cities of University Place and Fircrest. Activities in NE Tacoma, including the Joe's Creek drainage basin, are coordinated with Federal Way. Activities in the Hylebos Creek drainage basin are coordinated with the cities of Federal Way, Fife, Milton and Edgewood and with Pierce and King Counties.

### General coordination for control of stormwater pollution from other jurisdictions

The City coordinates with other jurisdictions and agencies in a variety of ways. The City participates in the NPDES municipal permittees group, the Puyallup River Watershed Council, the Hylebos Watershed Action Team and the APWA Stormwater Managers' Meetings. Funds are provided to the Pierce County Conservation District to support the Stream Team which is sponsored by Tacoma, Pierce County and the cities of Puyallup, Fife and Sumner.

Development of coordinated SWMPs for waterbodies shared with other municipal permittees. The City coordinates with other municipalities to address stormwater concerns in shared waterbodies as described above.

# S7B8a Runoff from new development and redevelopment

# Development of an ordinance containing minimum technical requirements equivalent to Ecology's manual

The City developed a draft Stormwater Management Manual, Volume I - Design which was submitted to Ecology in 1995 for comments. An Equivalency Document for this manual was submitted to Ecology for review in 1999

Stormwater plans for all new development and redevelopment projects are being reviewed and then the projects are inspected in the field. Many aspects of the draft Stormwater Design Manual, including the detention release rates are being implemented in this process. Stormwater facilities designed by staff and by consultants are done in accordance with the Design Manual. Erosion and sediment control plans are reviewed for compliance with the City's Excavation and Grading Ordinance.

Staff provide consultations and educational meetings with developers, planners and engineers involved in the land development process

The Building and Land Use Services Division of the Public Works Department distributes NPDES Construction Notice of Intent forms to all developers who have projects that will include 5 acres or more of land clearing activities. These projects require a separate NPDES permit from Ecology.

A grading and erosion quality control team has been identified and staff is currently working on ways to improve the plan review process relating to temporary and permanent erosion control plans. The team is developing ways to educate the public on the needs of implementing adequate erosion and sediment control measures. The team is also researching new technologies and encouraging contractors to try these new technologies. As the education of the public increases, the City will continue to increase its efforts in enforcing the requirements stipulated in the Design Manual New inspection and enforcement techniques will be developed in 2000

An Erosion and Sediment Control class was developed in 1999 and will be offered to all applicable City staff in March 2000. The class will be a full day and will feature outside speakers who are active participants in the International Erosion and Sediment Control Association. The Stormwater Utility is sponsoring the class and it will be offered to all engineers, inspectors, planners and other staff involved in land development activities that could cause erosion and sediment problems

### S7B8b Existing Residential and Commercial Development Runoff

The City's current program includes business inspections, drainage complaints, interagency coordination, stormwater education, a major source control effort in the Foss Waterway drainage basin and enhanced activities in the Snake Lake drainage basin

### S7B8c Municipal Storm Sewer Operation and Maintenance

The Public Works Department has a Sewer Maintenance Division that is responsible for maintaining both the storm drainage and the sanitary sewer systems. The following tables indicate the level of maintenance efforts that were completed during 1999.

### Municipal Storm Sewer Operation & Maintenance January 1999 to December, 1999

| # CB's cleaned                      | 5,322      |
|-------------------------------------|------------|
| # CB's checked                      | 103        |
| # Scuppers cleaned                  | 127        |
| # Culverts cleaned                  | 301        |
| Ditches cleaned                     | 30,249 ft. |
| Detention Ponds cleaned (brushed)   | 31         |
| Storm Main lines cleaned            | 27,454 ft. |
| Storm Main lines flushed            | 13,799 ft. |
| Storm Main lines backcut            | 7,550 ft.  |
| Storm Manholes cleaned              | 150        |
| Storm Manholes checked              | 608        |
| # Feet In House Storm TV Inspection | 20,831 ft. |
| # Feet Pay Storm TV Inspection      | 27,334 ft. |

The Sewer Utility Maintenance Division is developing a comprehensive maintenance program that will extend the life of facilities and systems, and improve system reliability and performance. The program will be completed and implemented by the middle of year 2000. This program includes maintenance improvements and modifications, monitoring and evaluation of system performance,

and the development of specific performance standards for each maintenance activity. Some of the critical maintenance activities included in the maintenance program are, TV inspections, catch basin inspection and cleaning, ditch inspection and maintenance and the cleaning of scuppers and sumps

Development of an ordinance defining private storm sewer system maintenance responsibilities was started in 1999. The draft ordinance has been submitted to Ecology for review and will be finalized in 2000.

Vactor waste is currently being decanted. The dry material is used at the landfill as daily cover. The liquid waste is being discharged to the sanitary sewer. Testing of both the dry and liquid components is continuing.

### S7B8d City Road Operation and Maintenance

The Streets and Grounds Division of the Public Works Department is responsible for road operation and maintenance. This division sweeps the streets, does manual cleaning of stormwater features such as culverts and catch basin grates, has a fall leaf pick-up program, has a decicing and snow removal program and responds to spills.

The City owns 4 street sweepers and 2 or 3 of them are in operation daily. During 1999, approximately 4,300 miles of street were swept and 4,500 cubic yards of material were collected.

### S7B8e Water Quality Considerations in Flood Management Projects

The City did not construct any flood control projects in 1999.

### S7B8f Runoff from Pesticide and Fertilizer Application

Educational efforts in this area were incorporated into the City's overall educational programs.

### S7B8g Illicit Storm Sewer Discharge Elimination

The elimination of illegal discharges is one of the City's top stormwater priorities. The City currently has a ordinance that is used to enforce the elimination of illicit discharges. This ordinance was revised and submitted to Ecology for review in early 2000.

The City has two full time staff people devoted to the elimination of illicit discharges. When they do business inspections, they provide the business operators with technical assistance regarding the elimination of illicit discharges and they educate business operators about the proper BMPs to use Volume II of the City's Stormwater Management Manual, "Stormwater Pollution Prevention Manual: A Guide to Best Management Practices for Industries, Businesses and Homeowners", is used in the industrial stormwater program for guidance in the storage and containment of chemicals

The field staff observe or assist emergency response agencies with spill response activities. They provide the agencies with information on the City's stormwater system with the goal of keeping the spilled material out of the system. They continue to work with mobile washers and charity car wash operators to ensure that these types of washing activities are done correctly. They have also worked with the Tacoma Fire Department and with other City facilities in 1999, to ensure that vehicle wash water is disposed properly. The field staff also responds to general concerns regarding water quality problems.

The elimination of two illicit discharges to Puget Creek are described later in this report in Section 7, Identification of known water quality improvements or degradation.

The City has a fairly new household hazardous waste disposal and recycling center located at the landfill. This popular facility provides a place for the community to safely dispose of waste products that otherwise might end up in a storm drain.

### S7B8h Industrial Stormwater Monitoring and Control

The City reviews all commercial plans for adequacy of the private storm sewer systems and their connection to the City's system. New construction is inspected to ensure compliance with City requirements.

The City's two stormwater Source Control staff inspect industrial sites. The industrial inspections are coordinated with Ecology staff as appropriate. This coordination includes the referral of problem sites to Ecology when the industry has an industrial NPDES permit.

The staff members have developed an inventory of sites and have the inventory on a computerized database.

### S7B8i Stormwater Education

### Employee education

The City encourages its stormwater staff to participate in continuing education. The staff has attended classes on BMPs, water quantity and water quality, erosion and sediment control and other topics directly related to stormwater. City staff also participates in the APWA Stormwater Managers' Meetings, the NPDES Municipal Permittees Work Group, the Puyallup River Watershed Council and the Hylebos Watershed Action Team. All of these provide opportunities for additional stormwater education.

### Public education

The City has an extensive public educational program. The Stream Team, a multi-jurisdictional effort, sponsors storm drain stenciling. They also offer other programs such as wetland and stream bank cleanups and revegetation, workshops and tours. The Stream Team also has a water quality booth that is used at various community events including the Puyallup Fair and Maritime Fest. The Stream Team has a very large, active group of volunteers.

The Stream Team, the environmental group Citizens for a Healthy Bay, the Stormwater Utility and the Pizza and Pipes restaurant sponsored a storm drain stenciling day in Tacoma in July 1999. Staff from the Utility and Citizens for a Healthy Bay were interviewed on a twenty minute segment of the City Line cable TV show regarding the stenciling program. Many volunteers, including several families turned out to help and approximately 200 storm drains were stenciled

The Stormwater Utility is continuing to work with Metro Parks to support a variety of educational efforts that will focus on stormwater and marine life. These activities will take place at the Point Defiance Zoo and Aquarium

The charity car wash program also received radio and newspaper coverage in 1999. The Utility cosponsored with Sears, a day long, joint "Clean Bay Car Wash" as a fund raiser for the Gilda Club. This club raises funds for cancer victims and their families and was formed in memory of Gilda Radner. This large event was held at the Sears parking lot at the Tacoma Mall. Pollution prevention information was handed out and was discussed with the customers of the car wash.

The Stormwater Utility also distributed flyers and posters focused on things that the community could do to protect water quality such as car washing, auto maintenance, pet waste disposal and use of yard chemicals

The Building and Land Use Services Division also developed six public service announcements for their "Built Right" program which is designed to educate the public about proper permitting procedures.

The Stormwater Utility, Sewer Utility, Solid Waste Utility and Tacoma Power and Tacoma Water are continuing an ongoing effort with the Tacoma School District to provide environmental education in the schools. The Utilities have paid the salary of a Curriculum Facilitator for Environmental Education for the past several years. The Facilitator has developed environmental materials for the schools. The Facilitator also coordinated environmental workshops for teachers in 1999. One workshop was on watersheds and water quality, one workshop was on sewage disposal and wetlands, and one was on recycling and solid waste.

The Stormwater, Solid Waste and Sewer Utilities, along with staff from the City's Community Relations Department, joined together in applying for a Public Involvement and Education Grant from the Puget Sound Water Quality Action Team in 1999. The \$42,000 grant was awarded and will provide funding for an "Environmobile". This will be a staffed, mobile educational unit that will go out to the schools to provide environmental education to the school children of Tacoma in grades K-6. This program is being developed and will start implementation in 2000.

The Stormwater Utility again helped to sponsor the Nature Bowl program offered at the Nature Center at Snake Lake by various agencies. This event provides an opportunity for educational interaction with both teachers and school kids with respect to water quality concerns

Staff also participated in a variety of other educational activities such as meeting with high school students, assisting with the water quality booth at the Puyallup Fair, and doing water quality presentations

### S12 Thea Foss Waterway Basin Program

The City's NPDES municipal stormwater permit, issued in 1995, contained a special provision requiring the development of a stormwater program specific to the Foss Waterway. Much of the work to establish the program was done in 1995 and early 1996.

Source control activities conducted within the Thea Foss Waterway Basin over the past several years are documented in the Source Control Report, Thea Foss and Wheeler-Osgood Waterways Drainage Basins, referred to as Appendix Q (Round 3 Data Evaluation and Pre-Design Evaluation Report). In February 1999, the City published Chapter 3 of Appendix Q, which summarizes source control

activities conducted in Basin #237A. In June 1999, the City published an addendum to Chapter 1 of Appendix Q which summarizes a source control investigation conducted in Basin #245.

On September 30, 1999, the Final Round 3 Data Evaluation and Pre-Design Evaluation Report, which included Chapter 7 of Appendix Q, a summary of source control activities conducted in the "other" drainage basins to Thea Foss Waterway (Basins #207, #214, #218, #222, #223, #225, #243, and #248) was published. Also included in Appendix Q of the Final Round 3 submittal is Section III, Thea Foss Source Control Summary. Section III is a summary of information contained in Appendix Q, including completed stormwater actions and investigations, stormwater source control actions to be completed prior to sediment remediation, and source control actions exceeding the scope of current Public Works resources.

As explained in Section III, the City was in the process of generating reports on several investigations and source control actions which had just been completed. Therefore, a final addendum to Appendix Q was prepared, which includes updates on outstanding source control issues, and two reports related to source control investigations. This addendum was made available for comment by the PRP group. After addressing all comments received, the City submitted the final addendum to Appendix Q in February 2000.

Subsequent source control activities conducted in the Thea Foss Waterway Basin will be summarized in quarterly progress reports submitted to Ecology and EPA. In February 2000, the first such quarterly report was submitted covering the period from October 1, 1999 to December 31, 1999.

In 1999, source control efforts within the Thea Foss Waterway Sub-watershed focused on outstanding issues and concerns. A detailed list of these issues and concerns, shown in Appendix B, has been compiled by the Stormwater Source Control Workgroup, consisting of representatives from the City of Tacoma, the Department of Ecology (Ecology), and the Environmental Protection Agency (EPA) and most recently, Citizens for a Healthy Bay. The Workgroup meets approximately every 6 weeks to cooperatively discuss and provide status updates on each action item. Subsequently, the information contained in Appendix B is frequently revised and updated as needed.

### Inspections

In 1999, 15 full inspections and 6 drive-by inspections were conducted at businesses within the Thea Foss sub-watershed. Most of the inspections were performed to evaluate compliance status at businesses where concerns were previously noted. Enforcement actions taken in 1999 include one Warning Letter and two Notice of Violations (NOV). Each NOV also included a monetary penalty.

Other investigations that took place in the Thea Foss sub-watershed are described in Section 7 - Identification of know water quality improvements or degradation

### Education -

The City continues to provide residents and businesses with educational handouts and pamphlets pertaining to BMPs. Residential letters and pamphlets are routinely distributed in neighborhoods following complaint investigations. During inspections, businesses are provided both general and specific BMPs targeting applicable activities.

### Commercial and industrial monitoring

In 1999, as part of the City's ongoing investigation to identify potential sources of contaminants of concern (COCs), specifically bis(2 ethylhexyl)phthalate (BEP), a number of sediment samples were obtained from catch basins at various businesses. Depending on the sample results, the City may require corrective actions be taken, such as implementation of specific BMPs, in order to eliminate or minimize the discharge of contaminants from private drainage systems. In addition, the City has compiled a map of sample locations and results which serves as a tool for identifying possible areas of concern within the watershed.

### Other monitoring activities

In the Fall of 1999, in-line sediment traps were deployed as required in the Thea Foss Waterway Sampling and Analysis Plan (SAP) These locations included Outfall 230 (3 locations), Outfall 235, Outfall 237A (2 locations), Outfall 237B, Outfall 243, and a background (residential) location upstream in Basin #237A

In addition, the City, in cooperation with EPA and Ecology, identified additional upstream sample locations for the purpose of source tracing for BEP. Five sediment traps were deployed on major trunk lines upstream in Basin #237A. Four sediment traps were deployed upstream in Basin #230. And two sediment traps were deployed upstream in Basin #235. Sediment traps (2) were also deployed just outside the MPS Terminal which drains both to Outfall 245 and Outfall 248. In January 2000, the samples were retrieved and sediment traps were re-deployed at all 22 stations. A final analysis report from the City Lab is currently in progress.

#### Spills

In April and May of 1999, a number of complaints were received regarding turbid water discharging at Outfall 237A. Inspectors had been unsuccessful in tracing the source upstream. Finally, in June 1999, the source was traced to a City contracted construction project where de-watering was a frequent occurrence. Since this incident, the City has taken steps to address concerns related to construction de-watering and erosion control at construction sites.

On August 6, 1999, white paint discharging at Outfall #230 was traced to contractors working at St. Joseph Hospital, 1708 S. J Street. Several buckets of rinse water accidentally spilled on the roof and into a roof drain.

On September 3, 1999, a small spill of citrus-based cleaner was reported at Puget Sound InLine, 2322 S. Holgate Street

On November 30, 1999, a spill of canola oil was reported at Nalley's Fine Foods, 3303 S. Lawrence Street. The spill occurred in a portion of the plant which drains to the South Tacoma Field.

### 2. Notification of any recent or proposed annexations or incorporations

No areas were annexed during the reporting period.

### 3. Differences between planned and actual expenses

Relating the planned expenditures in each of the above categories to the actual expenditures is still very difficult at this time. The City's budget and fiscal tracking systems are not structured to fit the NPDES needs. They were developed to comply with the State Auditor requirements and conform to the Government Accounting Procedures (GAP). Some activities are budgeted in one activity or organization but are actually spent and therefore charged to a different activity or organization. As a result, the actual expenditure in any one line item does not necessary relate to the budget number for that same category. And finally, some capital expenditures may be budgeted in the operating budget but the expenditure is taken from the capital budget and vice versa. We are continuing to work with the budget and fiscal offices to see if modifications can be made to eliminate these anomalies. The City is investigating a new computerized tracking system for the entire City financial operations as well as other applications. This will include hiring a project manager and an outside consultant in 2000 for the purpose of selecting a vendor to supply the necessary hardware and software

4. Revisions, if necessary, to the remaining years of the fiscal analysis reported in the approved stormwater management program

Revisions to the fiscal analysis section are not necessary.

5. For the fourth year report, a summary and analysis of the cumulative monitoring data collected throughout the term of the permit

The fourth year report was submitted in September 1999.

6. A summary describing compliance activities, including the nature and number of official enforcement actions, inspections and types of public education activities

The Building and Land Use Division of Public Works is responsible for the permitting of a wide variety of land use activities throughout the City. They issue residential and commercial building permits, clearing and grading permits, and permits for shorelines, wetlands and other critical areas. They also process all land use permit applications including short plats, formal plats and other activities. During 1999, the following enforcement actions were taken:

- Grading and filling permits 41
- Erosion control inspections 57
- BMP failure inspections 5
- Tracking sediment off-site 6
- Grading inspections 95
- Shoreline investigations 2

During 1999, seven calls were received from the public regarding water quantity and flooding concerns. Approximately 125 water quality complaint calls were received and were addressed. These calls related to a variety of concerns such as vehicle storage, working on vehicles, painting,

spills relating to vehicular accidents, business practices related to improper storage of chemicals, and vehicle and equipment washing.

Enforcement actions were taken in the Thea Foss Basin. One warning letter and two notices of violation were issued. The notices of violation had monetary penalties associated with them

### 7. Identification of known water quality improvements or degradation

In 1999, the City completed an investigation in Basin #245 which identified a likely source of petroleum-based material which had been infiltrating into the storm drainage system and discharging to Thea Foss Waterway This matter has been forwarded to Ecology with a recommendation for further action to confirm the City's findings and remove the source In September 1999, the City eliminated this source of contamination to the waterway by repairing damaged sections of the storm system where material had been infiltrating

In 1999, the City completed an investigation in Basin #235 which identified the source of consistent petroleum odors reported in the storm drainage system near the Washington State Historical Museum. Activities conducted during the investigation confirmed that groundwater contaminated with gasoline is infiltrating into the storm drainage system and discharging to Thea Foss Waterway The City, Ecology, and Tacoma-Pierce County Health Department are currently working cooperatively to: 1) eliminate the pathway to the storm drains, 2) identify the source(s) of contamination, and 3) evaluate the need for remedial action. This work will eventually result in an improvement to water quality.

In March 1999, the City conducted an investigation to identify the source of fecal contamination detected in the storm drainage system within the Puget Creek drainage basin. Several samples were obtained from major trunk lines upstream in the basin to identify the area of concern. Additional samples were obtained to further isolate the source. Finally, smoke testing was performed which identified a household side sewer which was inadvertently connected to the storm drain. Soon afterwards, City crews re-routed the side sewer to the sanitary sewer. However, the major source of contamination was later identified when additional smoke testing was performed in the area. City crews found a sanitary sewer cross-connection to the storm drainage system. A plug which had been previously installed in a cross-connection pipe at a manhole had failed. City crews immediately corrected the problem.

The work of the City's Bay Patrol, described in the Monitoring Section, S7B4 resulted in the following improvements to water quality

- A boat owner was found sanding his boat while moored at a marina, allowing the debris to fall into the water. He was immediately stopped and informed that activity could only take place at a dry dock. The marina owner was also informed and asked to watch out for this sort of activity
- Muddy discharge from a stormwater pipe lead to the discovery of a water main break. Staff from Tacoma Water responded quickly to stop the flow in the main and to make repairs.

- A diesel fuel sheen was tracked to an area near several companies' operations. The companies were contacted and they searched for the source. No source was found, but a follow up inspection found the sheen was gone.
- A small diesel fuel sheen was tracked to a boat tied up at a marina. It had an internal diesel fuel leak which was being intermittently discharged into the water by an automatic bilge pump. The owner was contacted and he turned off the bilge pump and pumped the diesel fuel out of the boat for proper disposal.

A new Home Depot store is being constructed in the western part of the City. A wetland is located on the site. The wetland was degraded due to adjacent commercial and industrial activities. As part of the permitting process for the Home Depot, the wetland was cleaned up and the buffer was replanted. Now only clean roof water is discharged into the wetland and the Home Depot is responsible for monitoring the wetland on a regular basis.

8. Status of watershed-wide coordination and activities which the permittee has undertaken individually or jointly as part of the Special Condition S7B7.

Please refer back to S7B7 for information on watershed-wide coordination and activities

# Appendix A

# Urban Creek Assessment Quality Assurance Project Report March 2000

Please see the attached report.

# Appendix B

Source Control Issues and Concerns within the Thea Foss Waterway Sub-Watershed

| Tac  | Tacoma Stormwater Worksheet (Filnt & Naccarrato rev. 2/2000)  |  |   | - Comment  | - vijemenmenmenmenmenmenmenmen          |
|------|---|--|---|--|---|
|      | Note 1: "Col" generally means City stormwater utility, other City divisions are otherwise specified. Note 2: Naccarato temporary re-assignment postponed, staffing plan to accomplish tasks within specified time frames is not certain. Note 3: Athough WDOE's Mercuri & Coleman are specifically named to complete lasks, other staff may be assigned. Note 4: At 'six-weekly' meetings Col', WDOE & EPA convene to cooperatively address outstanding issues. Note 5: Reference to a '3rd or 4th Rnd Sed Trap Report' is based on the 1st & 2nd round sed trap efforts led by Ecology. 3rd Rnd of sed trap sampling refers to the effort of Sept'99 to Feb '00 (as shown below). 4th Rnd sed traps were deployed Jan'90. Now that the City will fake the lead in sediment trap sampling, results analogous to Ecology's presentation will be presented in the reports described in the City's stormwater monitoring plan. | staffing plan to accomplish ssigned. Note 4: Al "six-ard on the 1st & 2nd round 10. Now that the City will g plan. |   |  |   |
| UE,O | What  | When   | Whoffshom   | Report Out   | "Deliverable"                           |
| 730  | PAHs - Installed traps above & below courthouse & schools in 1998 sediment trap study(HCID lube oil identified, but not quantified). UST at schools were removed. Unlon Sin at courty counthouse (Yakima and S 11th) closed in place, sw crxx plugged oily seep still observed. Check wfTPCHD re monitored seeps from tanks. Note: Unlon Sin and museum give sources discharge to SD-235 (only north end or parking lot at Federal court house discharges to 230. 1299: TVd line on S 15th to Court A and Dock St line. Found broken pipe along RR tracks (at FD-3B), but no If problems.  | ther '89 (Ecol info/CoT)  the '89 (CoT/FPCHD)  (299 (TV)  (700 (decide addni confrols)                             | WDOEMercui<br>wNorton<br>CoTNaccarato<br>wTPCHD                     | Ortly Repi   | CoT/WDOE; quaitelly rpt                 |
| 8    | i   | 66, eun/ ‡   | CoTMaccarato  | Orbly Rept   | *********                               |
| 82   | $\overline{}$   | †3me '99   | CoTMaccarato  | Oibly Rept   |   |
| 230  | Manholes & sidelines need further cleanout pending results of TV work & sed traps.  |  | UšlityOwners  | Qrbfy Rept   | - A Contractive Charles                 |
| 230  | Auto detailing & line-related operations possible sources, 7 sed traps installed for source id sampling (8/99); FD3 (15th St. main line), FD3A (515th betw. Pacific & A Streets). FD3B (Hood St & Pacific Ave, S15th & Market, S15th & Market, S11th & Market, Broadvay betw S145h & S15th.   | Sept '99 (fraps in) 1/99<br>(data back) 2/00 (<br>(results to plan from)   | Co T/Maccarato  | Grby Repl 1/15/00  | CoT: addendim DxD. (sed tap<br>slatus)  |
| 230  | BEP: Colonial Fruil - CoT checked for outfall (condensate?) as part of Bay Keeper survey for outfalls on 4/22 - no apparent outfall. Cross-checked water consumption - determined discharge to waterway is non-contact cooling water. Ecology will check NPDES permit status. CoT located 2' PVC discharge pipe under bldg - discharges directly to waterway.   | ‡SW control is complete<br>12/99 (WDOE for permit)   | CoT/Naccarato<br>WDOEMercuri  | 9/30 Rd. 3 (final)   | Col: addendum L<br>WDOE: memo           |
| 235  | PAHS high in 4/98 sed Itaps (LPAH = 16.000 ug/kg, HPAH = 75,000 ug/kg), but lower in 2/99 fraps (LPAH = 3,600 ug/kg, HPAH = 14,000 ug/kg)- from CB at end of pipe.  2/89 sed itap results: E 21st/Dock (d/s Union Sta: 3,480 ug/kg LPAH, 13,360 ug/kg HPAH; E 21st/Jafferson fuls Union Sta): 1,360 ug/kg LPAH, 1,360 ug/kg HPAH.   | This line  | This line only presents data, it is not an action line.             | it is not an action  | n line.                                 |
| 23,  | BEP. 4/98 sed Irap: oulfall at E. 21st/Dock SI = 96,000 ug/kg. 2/99 sed trap: E 21st/Dock (d/s Union Sta): 20,000 ug/kg, E21st/Jetferson (u/s Union Sta): 42,000 ug/kg. No bytous sources on lhis line 3 sed traps installed for source id sampling (6/99): S21st & S. Jetferson, S. Market & S. Jetferson, and outfall   | This line  | This line only presents data, it is not an action line.             | It is not an actio   | n Hne.                                  |
| 235  | Source tracing: 3 sed traps installed for source id sampling (8099); S.21st & S.Jelferson (u/s of Union Sta to west), S.Market & S.Jelferson (u/s Union Sta to N), and S.21st & D.S. (outlatt). Two lines to park have been TVd. WSDOT-owned line running north of S.21st has had debris removed and now needs to be TVd by City. Other TV need to find the around museumicourthouse. Investigation of gas stations by Ecotogy also needed re: g/w contamination.   | Feb 2000: Trap data in 777 Trap data report 777 TV lines 777 Gas stations  | CoTMaccaato;<br>EcologyMaren  | DXD<br>addendum/Quarlenty<br>NPDES report  | £.                                      |
| 8    | WOOT crain S of S 21st Stigasholder. System owned by WSDOT runs from S to N, chains part of L-705 and connects to City SD-235 system S of museum. City TVd line and observed black larry substance seeping into manthole and other parts of Ilne. WSDOT maps show former gasholder at this manthole location. Manthole buried, no sample collected. WSDOT to raise manhole to grade (Coleman coord. w/ WSDOT); determine extent of IA, collect sample; lines may need tightlining.  | 777: raise MH<br>777 Collect sample  | Ecology/Coleman coord<br>w/ WDOT<br>CoT/Naccarato çollect<br>sample |  |   |
| 732  | Gas If on WSDOT tine N of S 21st. Short line from S 21st joins main E-W line on S 21st at Ct.A. Main line installed by WSDOT for 1-705 protect is asphalt-lined CMP. Infiltration at manhole 447 contains gas (benzene at 240 ug/L; WTPH-G; 0.7 mg/L.). PAH not detected at 1 ug/L. Ecotogy investigating historic gas stations as possible sources. Coord. with WSDOT to eliminate I/I (Ecotogy?). Continue to investigate I/I problems.   | 777: investigate sources<br>22 TV line<br>Stop IA  | Ecology/Coleman/Warren; CoT   | The state of the s | was market market                       |
| 235  | Gas Iff at museum CB: Gas in infiltration into ob behind museum (benzene: 29 ug/L, WTPH-G: 0.6 mg/L). PAH not defected at 1 ug/L. Line connects to WSDOT-owned line from L-705 N of S 21st/3 USTs removed 8/92. 10 monitoring wells installed—gas cont along S end of site extending N along E side of property. GAV remediation planned, but postponed pending investigation of offsite sources. Ecology coord w/ TPCHD to resume investigation/remediation. Coordinate wimuseum to eliminate Iff (Ecology?). Coatinue to investigate Iff (City?).   | 777: investigate sources<br>72 TV line<br>Stop IR  | Ecology/ColeWarren;<br>Co1; TPCHD                                   |  |   |
| 243  | BNRR: At 4/19/99 low lide heard cascading water behind bank armor, possibly the old outlat! from the roundhouse. Roundhouse allwater separator is by Berg Scaffolding.  Cot & WDOE found no connection to ow separator. Otherater separator filled w/ sand/cong (closed). At low tide Cot sampled & found low level TCE (near detection limits), sample was salt water.   | tMay '99 (sample)<br>†May/Jun '99 (data)   | CoT/Haccarato<br>WDOE/Coleman,<br>Mercuri                           | 09/30 Rd, 3 (final)  | 09/30 Rd. 3 (final)   CoT: addendum DxD |
| 243  | BEP: BNRR yard: incidental releases from lank in area leased by Truck Rail Handling - need collected results of sampling lor all media (soil, surf H20, groundwater) and the strigle catch basin sample for BEP (in '99). Need to characterize what gets into drains - Sed trap installed at outlatt 8/99. TPCHD site instand assessment data forwarded to WIDOE. Co'T got 1 sample from cb sediments in area where transloading occurs. BEP was low (79-2,400 ug/kg in sediment from d's CB and 890-1,520 ug/kg (wel weight) in ground product material). Other phthalate found in product: Di-n; 3,650-6,600 ug/kg, but only 198 ug/kg in CB sediment. See note below at Truck Rail Handling flem on 245 property leaseg from BNRR drains to 243  | ‡June '99 (inspect site & SepVOct (sile hzd results)   | CoTMaccarale<br>TPCHDMelson   | 09:20 Rd. 3 (final)  | CoT: eddendun DvD<br>WDOE: memo         |
| 243  | BEP: Picks Cove: 5/97 CB sample at south end of property draining to 243: 42,000 tights BEP. Ecology to follow-up on whether other cb was cleaned or not. Picks washes boats in area behind building-does not drain to new sand fillration system to be built. Have Picks stop washing boats at this location.  | ?? (sand lilitation working)<br>?? (WDOE on cleaned cb.)   | WDOEMercun  |  | WDOE: memo                              |
|      | "sw" - stormwater   | This is a working document used exclusively by the City of Taomia. Ecology, and EPA                                | acinsively by the Ci  | ilv of "l'aconsa.  | Realney and RPA                         |

"u/s" • upalroam "d/s" • downstroam

This is a working document used exclusively by the City of Taoonia, Ecology, and BPA, solely for the purpose of listing and tracking action items related to the Thea Foss Waterway Source Conirol Program. The use of symbols (e.g., question marks) identify issues to be further discussed by the Workgroup. NOTE:

"sw" - stormwater "cb" - catch basins "p r.n" - as roquired

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Note 1: "COT" generally means City stormwater utility, other City divisions are otherwise specified. Note 2: Naccarato temporary re-assignment postponed, statling plan to accomplish lasks within specified line frames is no certain though WDDE's Merouri & Coleman are specifically named to complete tasks, other staff may be assigned. Note 4: All 'six-awelky' meetings CoT, WDDE & EPA convent to cooperatively address outstanding issues. Note 5: Reterance to a '3rd or 4th Rnd Sed Trap Report' is based on the 1st & 2nd round and itself and of sed trap sampling refers to the effort of Sept'99 to Fab'00 (as shown below). 4th Rnd sed traps were deproved Jan'00. Now that the City will lake the lead in sediment trap sampling, results analogous to Ecology's presentation will be presented in the reports described in the City's stormwater monitoring plan.

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|---|-------|---|---|-------------------------------------|---|--|----------------|
| PAR Oby makes it concerns to the secondom. TPOED that have seemed (1997) if growing the secondom to the secondom. TPOED that have seemed (1997) if growing the secondom to the  | 4/2/0 |   | When  | Who/Whom                            | Report Out  | "Deliverable"                            |                |
| The first found to Duty policy. Journal propriets of 2000 - 2700 upty girp (1971-1999), 30,000 (100), channed in 1000 great 500 to 2700 upty girp (1971-1999), 30,000 (100), channed in 1000 great 500  | \$    | PAH: Oily material - concern is It to stormline. TPCHD site haz assess (10/57): 6 g/w and soil samples collected in ROW D SI/E 19ft. TPH-D and heavy oil > MICA least of A/98 samples at sump: TPH-heavy oil = 72,000 mg/kg, individual PAH ND, but delect limit = 11,000 ug/kg, BEP not tested. CoT will line existing drain along 19th (east of D SI). Sump at 245 reconfaminating • 18' soilds' accumulation since creamed 6 months ago. H2S added problem in this area (pipe damaga). Tide gate at outfall not feasible, so installed on inid pipe to sump; tidal influence remains. Tightlining compolated to 10/997 will address If & recon of line, sumps, etc. Need to clean sump and releast. Problems with how to collect representative sample from 15-tool deep sump. Old free pipeline located, small section full of oil-saturated soilds was removed. Concerns remain about contaminated soil on outside of line coming thru bedding material line • will sample & clean out sump when solids have accumulated again.  | lightled)<br>e. clean :<br>ed fraps<br>plan fror  | Co Y.Naccarato<br>MDOE/Coleman      | 09:30 Rd. 3 (final)<br>& Gitly Ropl   | CoT: addendum DxD<br>WDOE: memo          |                |
| Profes Down Polis installed decode loop bookwash 950. Ecology amplied do and muster LIGES. Ou, Pr. 2b. (23007-1000 mg/sh), Ph. 11(75 of 560 mg/sh)  | 245   | BEP al outfall. Data from DxD report sump samples 8,000 - 8,700 ug/kg BEP (1987-1996), 30, future sampling results  | Tids Ine  | only presents data,                 | It is not an actio  | n Une.                                   |                |
| BEP. MPST/Tuck Rail -update reprofuments on cheating, containment improvements. No similarlike apparent from cheating, containment improvements. No similarlike apparent from cheating, containment improvements. No similarlike apparent to cheat SOPs con properly leased from BMRR: no update yet. CBe cleaned late National Society of the control of the control of the control of the case of th  | 25    | Picks Cove: Picks installed closed toop boatwash 993. Ecology sampled cb sediments 11/35: Cu, Pb, Zn (2,300-71,000 mg/kg), TBT (275-1,253 mg/kg), Phthalates not analyzed. 4/86: Picks cleaned CBs (not the S CB), but not clear if pipes cleaned as well. 5/97. City sampled cb sediments: LPAH (2,600-54,820 ug/kg), HPAH (5,140-55,550 ug/kg), BEP (15,000-170,000 ug/kg), Dimethy phth (3,400-53,000 ug/kg), dimituty phth (750-43,000 ug/kg), penia (480-34,000 ug/kg). 10/97. TPCI ID sampled soil and g/w at 4 locations: only 1 site contained elevated makais and CPAH in soil, some PAH detected in g/w. 2 other sites PAH and phthalates detected in g/w. 4/98: Ecology installed sed trap in D Si cb: TBT (43 mg/kg), LPAH (6,064 ug/kg), HPAH (14,600 ug/kg), BEP (17,200 ug/kg). 1/98: Picks cleaned CBs and lines. 4/99: Picks sampled main sump: Cu (5,700 ug/kg), TBT (621), LPAH (8,970 ug/kg), HPAH (24,260 ug/kg), BEP (71,800 ug/kg), dimethyi phth (20,700 ug/kg), penia (NA). 1/00: Picks agrees to regrade site and install sand filtration system to treat stormwater. | Storm freatment in place V  | МОБЛЛегси                           | de la companya de la |  |                |
| HEFP: Premer Prasites - Ravislad for housekeeping practices and area around rails. 568 CB samples contained 9,400-27,000 ug/kg BEP; COT recommended more planters. Need follow-up inspection for cleaning & resampling, 1293; PP has relocated. CoT found drain in basement-low priority.  Sed trap results. 1997: 5,500 - 7,500 ug/kg BEP; 5,500 - 6,500 ug/kg BEP; 7,000 ug/kg BEP;   | 245   |   |   | NDOEMercuri (tpdate)                | Quity Repr  |  | <del>- :</del> |
| Sed trap results. 1997: \$600 outside BEP? 5,000 outside BEP? 5,000 outside BEP? 5,000 outside BEP? 5,000 outside BEP 5,0 | 254   | BEP: Premier Plasitics - Revisited for housekeeping practices and area around rails. 5/08 CB samples contained 9,400 - 27,000 ug/ng BEP. COT recommended more frequent sweeping plus CB inserts. Need follow-up inspection for cleaning. 12/09: PP has relocated. CaT found drain in basement—low priority.   |   | CaTANDOE                            | 09/30 Rd. 3 (final)<br>& Cubly Repl   | CoT; addendun DxD                        |                |
| EEP: Taccora Plastics: in old Tacoma Power bldg. Did inspection, but no sampling. All work inside, injection molding for toys & parts, no stronge, no translations and possible clear & old condulis for historical sources. M. Coleman may have additional related info from previous work in 100 (talk to Coleman) are a seasonal plants. Everything indoors for current operations — need to revisit cellar & old condulis for historical sources. M. Coleman may have additional related info from previous work in 1207, REP in traps was inver in 2nd rind. Based on diverse. T/96 CB samples (2,400 - 5,100 ug/kg) BEP). Cleanad all cbs in 1207, REP in traps was inver in 2nd rind. Based on diverse calculations are all the ways around Maaco - before cleanout saw no difference in phthalates between public and private calculations are than eissewhere on 237. Need to establish cleaning schedule under private maintenance or dinance & followup to ensure it is kopt. Cuttings/shavings escape through with request to insert filter. At Maaco washwater goes to grass (infiltrate to gw) - but may overflow to storm in winter. Need to followup with request to insert filter. At Maaco washwater goes to grass (infiltrate to gw) - but may overflow to storm in winter. Need to followup with request to insert filter. At Maaco washwater goes to grass (infiltrate to gw) - but may overflow to storm in winter. Need to followup with request to insert filter. At Maaco washwater goes to grass (infiltrate to gw) - but may overflow to storm in winter. Need to followup with request to insert filter. At Maaco washwater goes to grass (infiltrate to gw) - but may overflow to storm in winter. Need to followup with request filter. At Maaco washwater goes to grass (infiltrate to gw) - but may overflow to grass the grass of the grass of the grass of grass (infiltrate to gw) - but may overflow to grass the grass of grass (infiltrate to gw) - but may overflow to gw) - bu  | 237A  |   | This line   | only presents data,                 | it js not un actio  | n Rioé.                                  | ·              |
| Phthalates: YetTech & Maaco catch basins; 709 CB samples (2,400 - 5,100 ug/kg) BEP). Cleaned all cbs in 1297, BEP in Itaps was fover in 2nd rad, and accouple in the pass and private catch basins. Buly benzyl phthalates. YetTech line was severated and private channes be followed to assert the pass and private catch basins. Buly benzyl phthalates. Yet catched wowner for catched and private catched benzyl phthalates. Plastified and sewhere on 237. Need to establish cleaning schedule under private private private catched by a pass and private private catched by a pass and private private private catched by a pass and private p  | 237A  | BEP. Tacoma Plastics: in old Tacoma Power btdg. Did inspection, but no sampling. All work inside, injection molding for toys & parts, no storage, no transloading. Everything indoors for current operations — need to revisit cellar & old conduits for historical sources. M. Coleman may have additional related into from previous work in area.  |   | 3o Thiaccarelo                      |   | CoT: addensum #<br>(t.pdale status)      | 1              |
| Phihalales: Plasti-Pac: Need to figure out swiptumbing - during past remodel outside cb wound up beneath a loading dock. One other (?) was not functioning when site action pending reaccupation withing else. Update; Bldg vacant, moved to 2322 S. Holgate (formerly Max Burton Enterprises). Sile has been of site action pending cleaning and replumbing or closing of connection to stormwater. [[At new location, Plasti-Pac had reported a spill5-10] 1000. CoT verify site still action reach site action pending reaccupation.  Year of the lagrence of the connection of the c    | 237A  | Phitralates: Keffech & Maaco calch basins; 7796 CB samples (2,400 - 5,100 ug/kg) BEP). Cleaned all cbs in 1297, BEP in traps was lower in 2nd rind. Based on dye tests, Keffech line was around Maeco - before cleanout saw no difference in phithalates between public and private calch basins. Butyl benzyl phithalate (1,100 - 1,400 ug/kg) higher here than elsewhere on 237. Need to establish cleaning schedule under private maintenance ordinance & followup to ensure it is kopt. Cultings/shavings escape thur curtain to outside - followup with request to insert filter. At Maaco washwater goes to grass finitivate to gw) - but may overflow to storm in winter. Need to followup with TPCHD Did visit & operator was sweeping.   | (check seasonal BMPs) set schedula w/owner for cleaning?) f/00: CoT site visit (housekeeping) | Oo Thaccarato<br>PCHD/ new contact? | Gruly Rept  | CoT; addenásm to DAD<br>(topdate stetus) |                |
|   | 237A  |   |   | Oo TiMaccarato                      | Ouly Repl   | CaT: aeldenden to DaD                    | <del></del> 1  |

"sw" - stormwater "cb" - catch basins

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| oma Stormwater Worksneet (Filmt & Naccarrato rev. 112000) | Nate 1: "Col" generally means City sromwater utility, other City divisions are otherwas specified. Note 2: Nacoarato temporary re-assignment postponed, statified plan to accomplish | tasks within specified lime I  | weakty" mealings CoT, WDOE & EPA convene to cooperatively address outstanding Issuos. Note 5: Reference to a "3rd or 4th Rnd Sed Trap Report" is based on the 4st & 2nd round 🎆 | sed trap efforts led by Ecoko   | aķ.   |
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| <sup>Uelo</sup> | What  | When   | WhoWhom                              | Report Out                                   | "Deliverable"                             |
|-----------------|---|--|--------------------------------------|--|---|
| 237A            | Phithalales: Ultra-Poly. Even into no source is evidant on-sile, phithalates are continuing problem (1,400 - 340,000 ug/kg BEP in 5/36; CBs cleaned 12/06, 1997-1996 CB samples: 5,500 - 76,000 ug/kg BEP). BMRR noxt door has evidence of high phithalates ringration? U-P is a continued source & world appear to need may altan was hims, reclean cbs) and re-analysis. Current storage of finished product is all outside - Could not analyze ruw powerwould not dissolve in solvent. Current operator cognizant of BMPs & is practicing. FS Harmon Mig Co owns and maintains bus, office on site - possible historical contamination. Next action - have lines & cb cleaned - resample, CoT Inspect to check BMPs. | 1/00 reinspect   | Co I Raccarato                       | Only Repl                                    | .CoT. advendum to OxO                     |
| 237A            | A MW Eich next door to Ultra Poly- uls on drain: All Incomingroutgoing flows are accounted for - now part of pre-trealment program.   | no turlher action  | CoT/Naccarato                        |  | Co T: addendun to DiO                     |
|                 | PAHs: DA-1: chaff FS for interim action is largeted for 7/31/99. Traps installed 10/99 - 2/99. MH 080 w/s of WOOT (16,000 up/ng BEP, 4,710 ug/ng LPAH, 13,580 ug/ng HPAH) MH 081 d/s of WDOT (7,700 ug/ng BEP, 3,880 ug/ng LPAH, 4,240 ug/ng 1/PAH). Removing portions of old line, adding seenage collers to prevent movement along outside of old lines, slight re-grade of area & paving. Check stetus (Coleman).  | ?? (public notice for MTCA, action) ?? (action complete)                         | WGOE/Coleman                         |  |   |
| 237A            | PAHs. A&B Rent-a-Car. Nearest cb is away from site so it is unlikely that washwater is reaching sw line. Dear used parts. Generally low performance housekeeping & BMPs. Increase presence & inspections w/sampting to monitor/increase compliance (possible crxn to business licensing?) Updates pending for DxD.  | Summer 99  | CoTMaccaralo                         | 9/30 Rd. 3 (final)                           | CoI: addendum to DxD                      |
| 737A            | PAHS. Active Gear. Now tenant at former site of Ben's Truck Parts. Found as result of comptaint. Need to check crixin on washpad (to sewer or sw/) and add to CoT its as location for routine ch channing. Active Gear has been very responsive to CoT on source control - cbs were full when AG came on site (AG cleaned). Re-visit shows they now store truck gear boxes outside - contact storm waterfolls concern.  | 12/99 (revisil)  | CoT/Naccarato                        | 09/30 Rd. 3 (final)   6<br>& Cirtly Rept   ( | Co F. addendun lo v.xD<br>(update status) |
| 237A            | PAHs. Blake Stop, Tenant at Ben's Truck Parts sile, Generally a mess behind clock, increase presence & inspections  | Summer 99  | CoT/Naccarato                        |  | Cof: addendure to OxO                     |
| 137A            | Allas Foundy WDOE foud on compliance thru NPDES, Semi-VOA not tusted under purmit WDOE has requested MSBS as chack for presunce of phthabidas in praducts used. CoT requests BEP monitoring as NPDES requirement. 12/997; Allas to install onsite infiltration system. CoT sampled 4 onsite and 2 offsita CBs.  | DOE)<br>duku)<br>dou)<br>equest)   | WDOEMercial &<br>HPDES penni soction | 0604/1999                                    | Fall '99, Co? Letter to WAXINE            |
| 237A            | Auto Yeath Collission Center. No CB on-sile, Cars rinsed with water only after boing painted. Explained in Appendix Q. (DxD report).  | Complete   | CoT/Tolletson,<br>Haccuralo          | OxO  | *******                                   |
| 237A            | Auto Body ReBuild/ PPG: No wash pad exists. CB located near wash area. As noted in Appendix Q (DxD Report), newly painled vehicles now washed with water outy Candidate for sampling.   | Sepl '99 (frans in) 1/99 (data back) 2/00 (data back) (results to plan from)     | Co I/Haccarato                       | gva  |   |
| 237A            | . Baby Diaper Service: CBs were cleaned when drains were stenciled. CBs sampled by CoT. Updates pending for DxD.  | Summer '99   | CoT/Naccarato                        | 9/30 Rd. 3 (final)                           | Co T: addendum to DxD                     |
| 237A            | CJ Auto: 997 CBs plumbed to oil-water sep at Walts Radiator. Now out of business. Walt's Radiator (owner & naighboring tenant) took over vacant space. No turther action required.  |  | CoT/Naccarato                        | 9/30 Rd. 3 (fintal)                          | Coli: addendum to DxD                     |
| 237A            | Jack-In-the-Box: High staff turnover does not generally ensure SOPs & BMPs will be applied. Fined for continuing to wash parking lot with degreasers. 38K ppb of BEP in CB, possibly from soaps. Add to plans for more presence visibility. Data conting in next quanterly report.  | Summer 99  | CoTiflacearsto                       | S Orbly Repi                                 | CoT; addendem to DAD<br>(updale status)   |
| Z37A            | Auto detailing & tire related operations possible sources - Sed traps instalted at 8 key locations 8/89 for source tracing (see first entry under 237A). Need to update Info for DxD.   | Sept '99 (raps in) 1/99<br>(data back) 2/00 (tesults to plan from)               | CoTMaccarato                         | 09/30 Rd. 3 (final)<br>& Qitity Repl         | CoT: addendun lo DxD<br>(npdale slatus)   |
| 237A            | BEP. Evergrean Tire @ 98,000 ugkg (BEP) in cb (HPAH > 75,000 ugkg) not cleaned. BEP & PAHs in '98 samples were even higher. As noted in Appendix Q (DxD rep.), pad connected to sanitary sewer installed as required. Added maintenance schedule. Firestone - needs added to maintenance schedule.  | Summer 89  | Co T/tłaccarało                      | ОхО  |   |
| 237A            |   | 77 (clean, resample) 77 (wasti pad) 1/00: (verily cnxn)                          | CoTiNaccaralo                        | 09/20 Rd. 3 (final)<br>& Civliy Repl         | CoT: addenden la DAD<br>(spdate status)   |
| 237.6           | BEP: JR Rocking Furnitue. A small-scale operation uses soap for vehicle washing - gravel area is herd to sample. No hulter action as you Appendix Q (f)xD Report)   | Surumor 99   | CoTMaccarate                         | DyO.   | *********                                 |
| 237A            | Lincoln Piaza Shopping Conter. Legal mallers panding regarding trash compactor discharge. Uputulos punting for DxD.   | INO (strukogy for discharged CoT/Haccarato/Tolleho<br>dramago from Irush bins) n |                                      | 09/30 Rd. 3 (final)<br>& Chily Rept          | CoT: addendran to On()<br>(update stoky)  |
|                 |   |  |                                      |  |   |

"sw" - stormwater "cb" - catch basins

"pr.n" - as required

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| <del></del>    | What   | When  | Whorwhom                            | Report Out                           | "Deliverable"  |
| <del>:</del> - | PAHs: Yellow Cab (Irm Rainer Radiator): no sw conveyance - runs thru gulters to grass & greenery - doesn't reach the road. Need for turther action curently being assessed. Updates pending for DxD.   | no further action   | Co <i>TM</i> accarato/Tollefso<br>n | 03/30 Rd. 3 (final)<br>& Cruly Rept  | CoT; addendum to DxD<br>(update status)  |
|                | Nallay: Washpad has overflowed to storm. Soap is used • likely source of BEP. Sewer Operations followed up for pre-freatment compliance. No semi-VOA analyzed for permit. Pickle brine runs to ch, especially during periods of high production. Nalley does have scheme/schedule for replacing old wood tanks, anticinated completion in 2007. Meanwhile, berms need repair. Need a scheme for sampling the site from sw perspective • then plan to establish controllocmpliance. Ra SOPs and BMPs need management buy-in to ensure practices are sound. Need to update DxD. Also, see Appendix Q (DxD report). Mercuri to chack permit status. CoT tasted pickle brine for semi-VOA. | 77 (WDOE/EPA strategy for sv sampling) 77 (repair berns) 77 (sile sw control schedule) 2/00: brine last results | WDOEMercut<br>Co'Illaccarato        | 09730 Rd. 3 (final)<br>8 Chily Rept  | WDOE: Memo or other<br>documentation for CoT<br>Co); DAD addenium (updale<br>status)   |
| 237A OF        | Olympic Brake Supply: Vehicle washing discontinued following 3/97 inspection. CB were cleaned - need to follow-up on BMP implementation. Candidate for CB sampling.  | Sept '99 (traps in) 1/99<br>(data back) 2/00<br>(tesults to plan from)  | Co <i>T/</i> Naccarato              | 09/30 Rd. 3 (snal)<br>& Qisiy Repl   | Co I; addendum to DAD<br>[typdale status]  |
| 23.7A C.S.     | Osbora McCann Cadillac: 1208 CB samples: 3,000 ug/kg LPAH, 12,630 ug/kg HPAH, 7,400 ug/kg BEP. Wash pad confirmed connected to sanilary sewer. Anti-freeze relocated away from pad drain. Follow-up needed concerning outside washing of cars.   | 12/99 (followup)  | CoTiNacearato                       | 09/30 Rd. 3 (final)<br>& Crity Rept  | Co I: addendun to OxD<br>(updale slahus)   |
| 237A<br>Q      | Oxygan Salas & Servica: Cylinder hytro-lesting water has been re-rouled to saultary. No further action required.   | Complete  | CoTiNuccarato                       | Q <sup>r</sup> Q                     | - Troppostor   |
|                | Peerloss Laundy. CB cloaned 5/87 & were high BEP (30K ppm) betorehand. Resample cb and got operator on schedule for ch maintenance.  | 12/99 (cb resemple)<br>?? (schedule for cb maint )  | CoTMaccarato                        | 00/30 Rd 3 (final)<br>& Orbly Repl   | CoT: addiendun to DxD<br>(updale status)   |
| Pu<br>237A reg | Paget Sound Energy. Confirmed that oitwater separator at washrituel area is plurithed to sanitary. Verify whether or not clus have all been cleaned & when - resample. COT reported that CBs have been cleaned (11/89). Pressure washing for fleet vehicles should be done only where flow goes to oky separator. Follow-up inspection confirmed flow. Need to sample cleaned cb.  | (ch resample)   | CoTflaccarate                       | Qully Rept                           |  |
| 237A Sa        | Sam's Aulo Repair. Follow up to confirm waste oil & enti-freez are no longer problems (See Appandix C)   | Complete  | CoTAlaccaralo                       | 0×0                                  |  |
|                | Star tos & Fuel: There is ch adiacant to above ground waste oil lank, Waste oil tank has been relocated. (See Appendix Q) No further action required.  | Complete  | CoT#laccarato                       | OxO                                  | ***************************************  |
| 237A T8        | T&H Aulo Rapair. Based on low performance housekeeping & BMPs - add to schedule for rouline inspections.   | 12/09 (inspection)  | CoI//taccarato                      | 09/30 Rd. 3 (final)<br>& Ortily Rept | CoT: addershim to DxD<br>(update status)   |
| 237A Ta        | Tacoma Recycling: 2/97 CB samples: 21,000 ug/kg BEP, 22,000 ug/kg 4-melhylphenol, 5,000 ug/kg BBP. Follow up to confirm Itial twice-yearly cb cleaning acutally occurs.  | (2/99 (followup)  | CoYntaccaalo                        | 09/30 Rd. 3 (final)<br>& Orldy Rept  | CoT; addendam to DxD<br>[updala atabus]  |
| 737A Ta        | Tacona News Trib: 2/97: CBs near fuel island plumbed to SD, washpad to SS. 4/97 CBs cleaned. Determine if they need to replunb fuel island CBs to SS and sample CBs.   | 12/39 (replumb decision)<br>2/00: (work complete)   | CoI//łacca/alo                      | Ortily Rept                          | Colt; addendem to دمان   |
| 237A Ta        | Tam Engineering/old location: Visit current occupant (used by construction company for equipment/fruck staging area), inspect & evaluate for possible source control   | 12099 (reinspect)   | CoTinaccarato                       | 09/30 Rd. 3 (finul)<br>& Calliy Repl | CoT; addendem lo DaD<br>(updale slabis)  |
| 237A (W        | Western Furnace. At 1297 inspection cbs were full of solids - varify they were cleaned. In 6/08 Western Furnace closed. Re-opened in Summer '99 as Parker Paint retail outlet. Need to revisit to verily status of source control.   | 12/09 (ravisit)   | CoTntaccarato                       | 09/30 Rd. 3 (final)<br>& Ochly Repl  | CoT; addendum to UxD<br>(updale stabss)  |
| 2376 Ou        | Outall sad trap samples: 1997 (7,400 ug/kg LPAH; 57,000 ug/kg HPAH; 24,000 ug/kg BEP) and 1998 (5,800 ug/kg LPAH; 35,000 ug/kg 14PAH; 27,000 ug/kg BEP). Outy 1 possible BEP source identiled in drain report. Other possible sources for source fracing efforts incurde fire washing car tots (Armour All), delatifing operations, machine shops (cutting fluids with filings discharged to dumpers to drains). Sod trap installed at our fall 8009. Evaluate for possible source tracing in 2009.  | July '99 (inspections & td) Sept 99 (traps in) 1/99 (duta back) 2/09 (rustills to plan from)                    | & ict) 2000 CoThlaccarate n)        | Chuty Rept                           | Col.: adenokm ta DaO (sed<br>kap stakts)   |

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| Jacoma Stormwater Worksheet (Filmt & Naccarrato rev. 2/2000) |                           |  |
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| coma Stormwater Worksheet (Filmt & Naccarrato rev.           | 2/2000)                   |  |
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| PAIR VESOOT ICOV gains are out for review. It is names confort adoptional? Additional treatment required? Rehalf possibilities for existing balfic if connot system not healing gains, exc.  Burder, Behavior and the connectivity phases. Showed a source confort should be a source confort should be a source confort should be a source confort. The source and a source confort should be a source of the source of | Note 11. "Col' generaln' means Culy stommeter uting, other cult divisions are otherwise specified. Note 11. Note 12. Although WDOE's Mercuri & Coleman are specifically named to complete tasks, other staff may be assigned. Note 4: Af six-swelling from the second of the | ned. Note 4: Al *six-<br>n the 1st & 2nd round<br>Now that the Cily will<br>an.  |   |   |   |
|--|--|--|---|---|---|
|  | What   | When   | Who/Whom  | Raport Out  | "Dellverable"   |
|  | ale? Additional treatment required? Retrofit possibilities for existing traffic if cun ont system not  | <b>≈</b>   | CoTfSource Combol & Timansission (textery) CoTfYamastida, Ilaccaraio, Hendoy WDOEMercuri, Ilegy |   | Col. EPA, WOOE: letters?                              |
|  | das  | Sept '99 (traps in) 1699 (data back) 2/00 (results to plan from)   | Col/Maccarato   | Orbity Repl   | CoT, addendum to DxD (sed<br>trap status)             |
|  | PAHs<br>aferials   | 12/99 (tevisil & invasligala)<br>77 (additional conllols p.1 n.)   | Colillaccarato  | 09/30 Rd 3 (final)<br>& Qully Repl                      | Cot' addendell to                                     |
|  | od) No Julher action.  | Complete   | CoTHaccardo   | Ç   |   |
| · (  |  | ?? (revisil cb cnxn to<br>sanilury)  | ColMaccatalo  | 09/30 Rd 3 (final)<br>8 Gruly Rupi                      | Col: addenden to DaD                                  |
|  | nt study. Does it contribute significantly or not?   | والمستعدد والمستعد والمستعدد والمستع |   |   | Coll: OxD addendem                                    |
|  |  | 6/99 (50% conversion) 77 (convert balance of discharges to pretreatment)   | CoT/Nuccarato in<br>coordinadon with Sever  | 09/30 Rd. 3 (final)                                     | Col. mento or addendanto<br>DXD                       |
|  | PDES permits) for monitoring of CDCs & limits. WDOE provide monitoring data to CoT for possible  | 1111   | CoT & WDOE  | Cably Repl  | WD.C) E metno   |
|  |  | 6723/99 (reference sites) 77 (fleid work) 77 (data & results)  | 77 CoTHaccarato   | Qruly Rept  | CoT: addendum to DxD                                  |
|  |  | March '00 (per Council<br>schedule)  | CoT/ CBrown   | 673); compite lists<br>for authors                      | CoT: explanation DE &<br>EPA                          |
|  | ۷.   | March '00 (per Council<br>schedule)  | CoTAlaccarato,<br>CBrown  | 5/11; draft lists<br>6/23; compile lists<br>for authors | CoT: list of recommendations to authors of ordinance. |
| BEP Study - address as inherent stormwater contaminant. Existing data city-wide will be enapped Private manufacture, to success or other states to success or other states.  | Sep  | Sept '99 (traps in) 1/99<br>(data back) 2/00<br>(results to plan from)   | GoY/ Nacewale   | 8/4 ck propess  | Col): Sed Trap Rpt                                    |
| Private maniposance cruticans a serious transfer to the contract of the contra | 77   | 77 (data) 77 (data) 77 (naps) 77 (conclusions)   | Co <i>Ti</i> Naccaralo Hur<br>Crowser   |   | ากา   |
| י זור בי איני מוני ושונים בי שונים בי בי מונים בי בי מונים מונים וויק מונים וויק מונים וויק מונים וויק מונים ו   | SWAP program impammitation   | March '00 (per Council<br>schodalo)  | Col/Cily Council<br>Col/Cilrown   |   |   |

<sup>&</sup>quot;sw" - stornwater
"cb" - catch busins
"p cn" - sa required

|     | Note 1: "Col'generally means City stormwater utility, other City divisions are otherwise specified. Note 2: Naccerato temporary re-assignment postponed, staffing plan to accomplish lasts within specified time formers is not certain. Note 3: Although WDOE's Mercuit & Coleman are specificativ named to complete tasks, other staff may be assigned. Note 4: At 'sk. weekly' meetings Col', WDOE & EPA convene to cooperatively address outstanding issues. Note 5: Reference to a "3rd or 4th Rnd Sed Trap Report" is based on the 1st & 2nd round sed trap efforts ied by Ecology. 3rd Rnd of sed trap sampling returns to the affort of Sept'99 to Feb'00 (as shown below). 4th Rnd sed traps were deployed Jan'00. Now that the City will lake the lead in sediment trap sampling, results analogous to Ecology's presentation will be presented in the reports described in the City's stormwater monitoring plan. | ompilah<br>Al 'six-<br>reund<br>iy will | -   |                      | womanna.    |
|-----|--|---|---|----------------------|-------------|
| 70  | When When  | WhoWhom                                 | ReportOut   | "Deliverable"        |             |
| .,, | Private maintenance ordinance - decant stations for removed solids & water - none available for private (only City-owner) & operated for CoT-generated wastes) - Need to all establish whether wastes typically designate (fizes) or not, set up stations. Now using Hidden Valley for solids - decant is likely returning to server (septic dumps) or stormwater,   | WDOEAMercivi<br>CoT/Tallelson, Herkey   | 5/11: draff fists<br>6/23: compile lists<br>for authors |                      |             |
|     | Private maintenance ordinance - mapping will be needed   | ColfCStrand                             |   |                      |             |
| 3   | Structural BAIPs: need to keep track of who has what treatment - ratio-filling & new construction. Private BAIPs currently tracked by database (who haid).   | CoTiliaccaralo                          |   | CoT. addentum to SOD |             |
|     | Fast & Convenience Food Vendors: Polities often mandate the parking lots, floor mats be washed daily with degreasers. Send tetter. Check when fast contacts were 12/39 flast contacts made, follows with SOPs for housekeeping and need to minimize demanders.   | 27 CoT or WDOE?                         | Orbly Repl  |                      | <del></del> |

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